Wednesday, 4/4/2007 9:03:48 AM User: Kim Johnston **Process Sheet** : WEARPLATE **Drawing Name** : CU-DAR001 Dart Helicopters Services Customer : 31612 Job Number : 10606 **Estimate Number** : D33193 Part Number : NIA P.O. Number S.O. No. : ~ 12 : 4/4/2007 · D3319 REV. B **Drawing Number** This Issue : N/A : NC Project Number Prsht Rev. MA : SMALL /MED FAB Type **Drawing Revision** First Issue : 30905 Material Previous Run Each : 4/11/2007 10 Um: Qty: Due Date Written By Checked & Approved By New issue KJ/JLM : Est: 05.05.12 Comment Est Rev:B Now on Waterjet 06-10-03 JLM **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: 1010/1025/A21/6aA SHEET .048 M1010S18GA 1.0 Comment: Qty.: 3.4150 sf(s)/Unit Total: 34.1502 sf(s) 1010/1025/A21/6aA SHEET .048" Thick Batch: 1044tl 5110 07/05/15 FLOW WATER JET 2.0 Comment: FLOW WATER JET 1-Cut as per Dwg D3319 Dwg Rev:___ Prog Rev:___ 07/05/15 2-Deburr if necessary INSPECT PARTS AS THEY COME OFF MACHINE 3.0 QC2 PARTS AS THEY COME OFF MACHINE SECOND CHECK 4.0 QC8 Comment: SECOND CHECK SMALL & MEDIUM FAB RESOURCE 1 5.0 SMALL FAB 1

Page 1

Comment: SMALL & MEDIUM FAB RESOURCE 1

Deburr if necessary

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SAS 07-105/16

Dart Ae	rospace	e Ltd		•						
W/O:			V	ORK ORDER C	HANGES			<u> </u>		
DĄTE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No		PAR #:	Fault Cat	tegory:	NC	R: Yes	No DQ	A:	_ Date: _	
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NCR:		V	VORK ORI	DER NON-CONF	ORMANC	E (NCR)			***
DATE	CTED	Description of NC		Corrective Action	Section B		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descr Chief Eng	iption	Sign & Section	ion C	Chief Eng	QC Inspector	
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NOTE: Date & initial all entries

Wednesday, 4/4/2007 9:03:48 AM Date: Kim Johnston User: **Process Sheet** Drawing Name: WEARPLATE Customer: CU-DAR001 Dart Helicopters Services Job Number: 31612 Part Number: D33193 ✓ Job Number: Description: Seq. #: Machine Or Operation: NC BRAKE BRAKE NC Comment: NC BRAKE 07/05/16 10 Form using DT8326 & DT8261 as per Dwg D3319 Rev: 7.0 Comment: DIMENSIONAL CHECK LARGE FABRICATION RESOURCE 1 LARGE FAB 1 8.0 Comment: LARGE FABRICATION RESOURCE 1 Weld hard surface using D3319-3T2 per QSI 004 and Dwg D3319 Rev. 6 Qty Part Number Description 7560 Hardcoat Rod A/R N/A VISUAL WELDING INSPECTION QC9 Comment: VISUAL WELDING INSPECTION POWDER COATING 10.0 POWDER COATING Comment: POWDER COATING 07-06-13 Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CONVERSION 11.0 QC3 Comment: INSPECT POWDER COAT 12.0 **PACKAGING** PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify on inside surface using a permanent fine point marker with the following: TCCA-PDA, Dart Aerospace Ltd. P/N: D3319-3, B/N: BXXXXX For Product Eligibility see PDA05-18 1/06/22(10) and Stock Location:

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
i .									
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A: 🔙	Date: 🔇	7/66/22		

QA: N/C Closed: ____ Date: ____

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)			
DATE	STEP	Description of NC	Initial	Corrective Action Section B	Verification	Approval	Approval	
DAIL		Section A		Action Description Chief Eng	Date	Sign & Section C		QC Inspector
		ofen Paint inspection, A hole was found at the Affor the wemphote,	A	grand, i. Cill how withweld grand smooth	W .			
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NOTE: Date & initial all entries

Date:

Wednesday, 4/4/2007 9:03:48 AM

User: *

Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: WEARPLATE

Job Number: 31612

Part Number: D33193

Job Number:

Seq. #:

Machine Or Operation:

Description:

13.0

FINAL INSPECTION/W/O RELEASE





Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Dart Ae	rospace	Ltd							
W/O:			WORK ORDER C	HANGES					
DATE	STEP	PR	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR	: Yes N	o DQA:		Date:	
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DATE	STEP	Description of NC	Corrective Action Desc		Sian &	Verifica	ition	Approval	Approval

NCR:			WORK ORDI	ER NON-CONFORMANO	CE (NCR)								
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto					
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NOTE: Date & initial all entries

DRAWING NO.

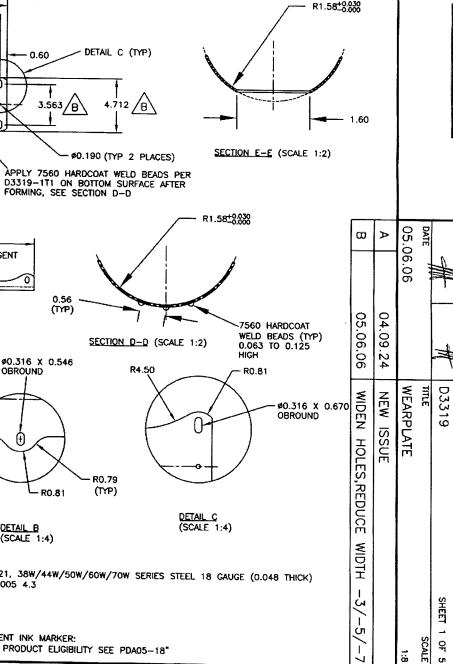
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PURPOSE

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4.984

3.815

1.600

DETAIL A (TYP)

1.6

(REF)

DETAIL A (SCALE 1:4) D3319-1 WEARPLATE

UNCONTROLLED COÉ!
SUBJECT TO AMENDMEST

ENGINEERING

AHOP COP

WITHOUT NOTICE

AND SEPTI

1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)

8.25

TO TANGENT

FLAT PATTERN

DETAIL C (TYP)

#0.190 (TYP 2 PLACES)

/B`

R4.50

R0.79

(TYP)

0.60

3.563

0.56

(TYP)

Ø0.316 X 0.546

RO.81

OBROUND

DETAIL B

(SCALE 1:4)

18.09

2.660

16.100

11.942

3.190

R1.92

DETAIL B (TYP)

R30±1

BENDING DETAIL

Ø0.316 X 0.546

OBROUND

POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

R0.62

- PART IS SYMMETRICAL ABOUT CENTERLINE
- ALL DIMENSIONS IN INCHES WELD PER DART QSI 004
- 7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER: "TCCA-PDA, DART AEROSPACE LTD., P/N D3319-1 B/N BXXXXX, FOR PRODUCT ELIGIBILITY SEE PDA05-18"

D3319 DRAWING NO

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AEROSPACE

APPLY 7560

WELD BEADS PER D3319-3T1 ON BOTTOM

SURFACE AFTER

FORMING, SEE

HARDCOAT

58

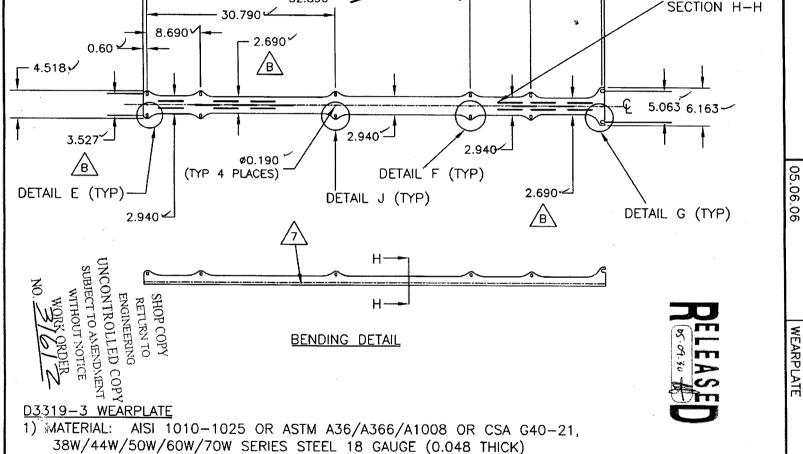
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POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3

7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER:

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

"TCCA-PDA, DART AEROSPACE LTD., P/N D3319-3 B/N BXXXXX.

4) PART IS SYMMETRICAL ABOUT CENTERLINE

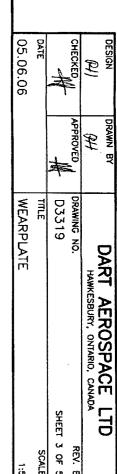
FOR PRODUCT ELIGIBILITY SEE PDA05-18"

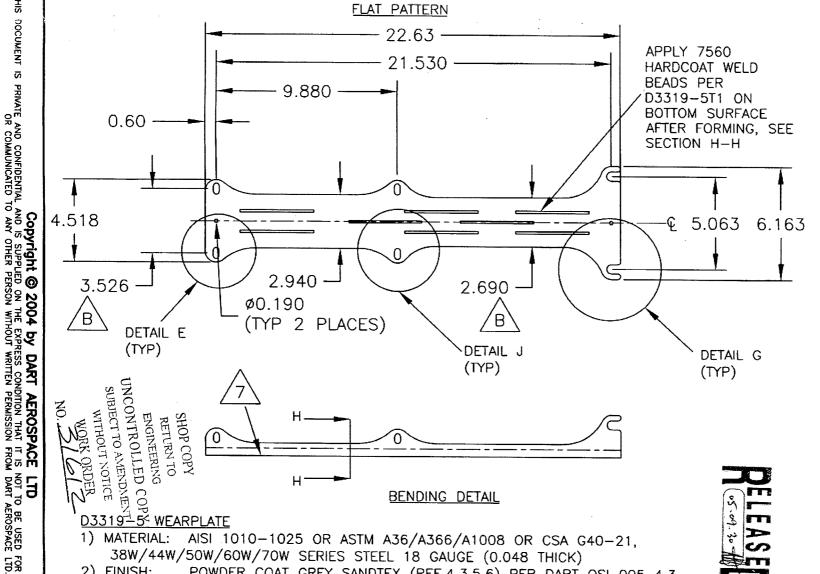
5) ALL DIMENSIONS IN INCHES 6) WELD PER DART QSI 004

FLAT PATTERN

52.890







1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)

2) FINISH: POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

- 4) PART IS SYMMETRICAL ABOUT CENTERLINE
- 5) ALL DIMENSIONS IN INCHES
- 6) WELD PER DART QSI 004

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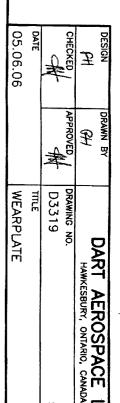
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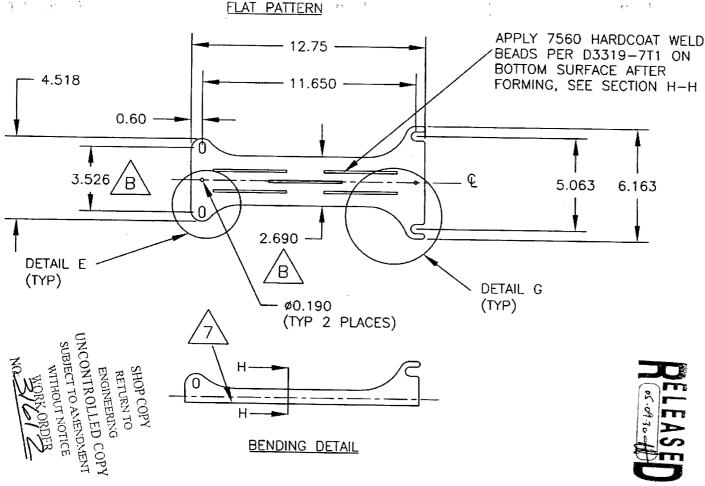
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7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER: "TCCA-PDA, DART AEROSPACE LTD., P/N D3319-5 B/N BXXXXX. FOR PRODUCT ELIGIBILITY SEE PDA05-18"



SHEET

SCALE 윽



D3319-7 WEARPLATE

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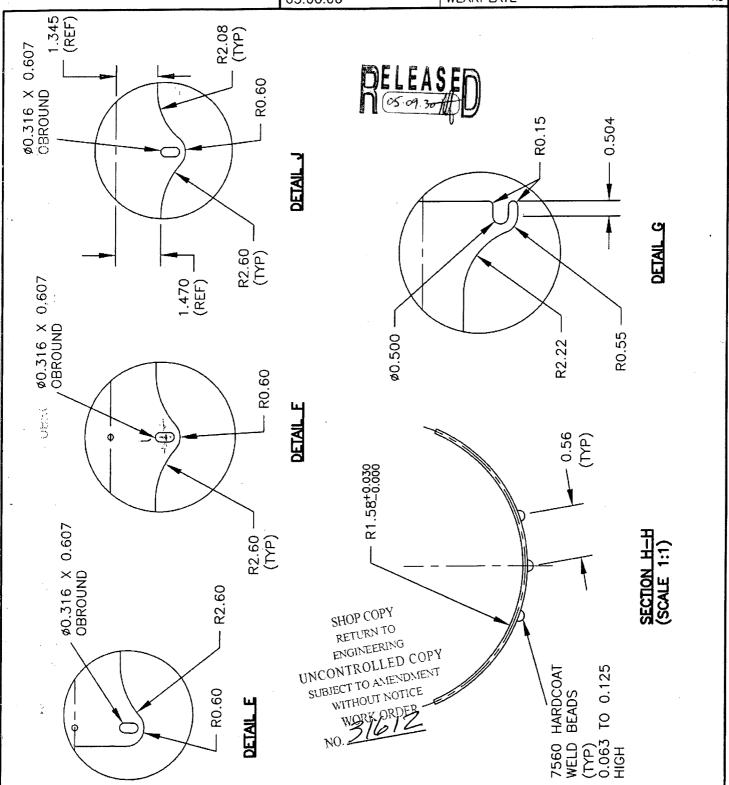
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- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)
- 2) FINISH: POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) PART IS SYMMETRICAL ABOUT CENTERLINE
- 5) ALL DIMENSIONS IN INCHES
- 6) WELD PER DART QSI 004
- 7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER: "TCCA-PDA, DART AEROSPACE LTD., P/N D3319-7 B/N BXXXXX, FOR PRODUCT ELIGIBILITY SEE PDA05-18"



DESIGN PH	DRAWN BY		OSPACE LTD ONTARIO, CANADA
CHECKED	APPROVED A	DRAWING NO.	REV. B
1	1 aft	D3319	SHEET 5 OF 5
DATE		TITLE	SCALE
05.06.06		WEARPLATE	1:3



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DART AEROSPACE LTD	Work Order:	31612
Description: Bearpaw Wear plate	Part Number:	D33193
Inspection Dwg: 53319 Rev: [3		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	,	First Article		Prototype
L	ı		1	- 1

	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
А	75.52	± 0.030	75,50	/		M-T	
В	74.420	± 0.010	74.700			M-T	
С	62.770	± 0.010	62.770	V		M-t	
D	52.890	±0.010	52.890	U		W-T	
E	30.790	±0.010	30.790			N-T	
F	8.690	±0.010	8,696			Vern	
G	0.60	±0.030	6.607			Vern	
Н	2.690	± 0.010	2.700			Vern	
1	2.940	±0.010	2 948			Vern	
- J	3.527	±0.010	3,522	V		Vern	
K	4.518	±0.010	4.513	/		Vern	
L	Ø 0.190	+.005/001	80,190	1		Vern	
M	2.940	±0.010	2.949	1	-	Vern	·
N	2.940	±0.010	2,948			Vern	
0	2.690	±0.010	268698			vern	
Р	5.063	±0.010	5.066			Vern	
Q	6-163	±0.010	6,168	/		Vern	
R	0.316 × 0.607	±0.010	0.316 x 605	/		Vern	
S	0.048	±0.010	0,046	Í		Vern	
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Measured by: SALA Audited by: Prototype Approval: NAA Date: Date: Date: NAA OF.05.5

Rev Date Change Revised by Approved KJ/RF

